What is claimed is:

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1. A display apparatus for projecting an image onto an eye's retina of a viewer, comprising:

a light source for emitting light;

a scattering plate for scattering the light from the light source;

an imaging plate for transmitting the light scattered by the scattering plate;

an optical unit with a lens for focusing the light transmitted through the imaging plate into an eye of the viewer; and

mechanism causing the scattering plate to be positioned at any place between the light source and the imaging plate.

- 2. The display apparatus of claim 1, wherein the scattering plate can move continuously between the light source and the imaging plate.
- 3. A display apparatus for projecting an image onto an eye's retina of a viewer, comprising:
  - a light source for emitting light;
- a scattering plate for scattering the light from the light source;

an imaging plate for transmitting the light scattered by the scattering plate;

an optical unit with a lens for focusing the light transmitted through the imaging plate into an eye of the viewer; and

a mechanism which allows the scattering plate to position at any one of predetermined plural positions.

- 4. The display apparatus of claim 1, wherein the light source takes an optically conjugated relationship with a pupil of the viewer.
- 5. The display apparatus of claim 1, wherein the device is so designed that the light from the light source is focused on or around a pupil of the viewer.
  - 6. The display apparatus of claim 1, wherein the scattering plate takes an optically conjugated relationship with a pupil of the viewer.

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- 7. The display apparatus of claim 1, wherein the device is so designed that the light scattered by scattering plate is focused on or around a pupil of the viewer.
- 25 8. The display apparatus of claim 1, wherein the light

source is made of a diode irradiating ultra-violet ray or blue ray and the scattering plate has a fluorescent material for transforming the irradiated ray into white ray.

- 9. The display apparatus of claim 1, wherein the light source is a combination of sub-sources irradiating red, green and blue rays, respectively.
- 10. The display apparatus of claim 1, wherein the light source and the scattering plate is made of an electroluminescent element.
- 11. The display apparatus of claim 1, wherein the scattering plate is so designed that it has a horizontal length which is greater than a vertical length thereof.